TEXAS DEPARTMENT OF INSURANCE

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PRODUCT EVALUATION Effective January 1, 2012
SK-29

*The following product has been evaluated for compliance with the wind loads specified in the **International Residential Code (IRC)** and the **International Building Code (IBC)**. This product shall be subject to reevaluation **October 2012**.*

This product evaluation is not an endorsement of this product or a recommendation that this product be used. The Texas Department of Insurance has not authorized the use of any information contained in the product evaluation for advertising, or other commercial or promotional purpose.

This product evaluation is intended for use by those individuals who are following the design wind load criteria in Chapter 3 of the IRC and Section 1609 of the IBC. The design loads determined for the building or structure shall not exceed the design load rating specified for the products shown in the limitations section of this product evaluation. This product evaluation does not relieve a Texas licensed engineer of his responsibilities as outlined in the Texas Insurance Code, the Texas Administrative Code and the Texas Engineering Practice Act.

Series SFD-100 and CMD-100 Polycarbonate Double Domed Skylights, Impact Resistant, manufactured by:

American Skylites
525 113th Street
Arlington, Texas 76011
Telephone: (817) 633-4666

are acceptable for use along the Texas Gulf Coast when installed in accordance with the manufacturer's installation instructions and this product evaluation report.

PRODUCT DESCRIPTION

The Series SFD-100 and CMD-100 skylights are aluminum skylights with a polycarbonate double dome. The SFD skylight is a self flashing unit. The CMD skylight is a curb mounted skylight. The skylights are impact resistant. This evaluation report is for skylights based on the following tested configurations:

General Description:

System	Description	Label Rating
1	Series SFD-100 Aluminum Polycarbonate Double Domed Skylights	SKP-HC100 52 x 100
2	Series CMD-100 Aluminum Polycarbonate Double Domed Skylights	SKP-HC100 54 x 102

Component Dimensions:

System	Overall Frame Size
1	52 ¼ " x 100 ¼ "
2	53 ½ " x 101 ½ "

Glazing Description:

System	Glass Construction [1]	Glazing Method [2]
1	SG-1	GM-1
2	SG-1	GM-1

Note: [1] See the "Glass Construction Key" for the glazing construction.
[2] See the "Glazing Method Key" for the glazing method description.

Glass Construction Key:

SG-1: The skylight is glazed with two (2) nominal $\frac{1}{8}$" clear polycarbonate domes. The rise of the inner dome is 7 $\frac{1}{2}$". The rise of the outer dome is 10 inches.

Glazing Method Key:

GM-1: The domes are secured together with glazing tape. The domes are glazed into a silicone backbedding compound at the interior with an aluminum retaining angle placed over the exterior. The retaining angles and domes are secured to the frame using screws with a neoprene washer.

Frame Construction: The frame is constructed of extruded aluminum. The frame corners are mitered and welded. A retaining angle captures the flange of the outer dome and is secured to the frame with screws.

Reinforcement: None.

Hardware: None.

Product Identification:

System 1: A certification program label (NAMI) will be affixed to the skylight. The certification program label includes the manufacturer's name (**American Skylites**); product name: **SFD-100 Aluminum Polycarbonate Double Domed Skylight**; performance characteristics; the approved inspection agency (NAMI); and the following applicable standards: AAMA/WDMA/CSA 101/I.S.2/A440-05, ASTM E 1886-02 and ASTM E 1996-02.

System 2: A certification program label (NAMI) will be affixed to the skylight. The certification program label includes the manufacturer's name (**American Skylites**); product name: **CMD-100 Aluminum Polycarbonate Double Domed Skylight**; performance characteristics; the approved inspection agency (NAMI); and the following applicable standards: AAMA/WDMA/CSA 101/I.S.2/A440-05, ASTM E 1886-02 and ASTM E 1996-02.

LIMITATIONS

Design pressures (DP):

System	Maximum Width (in.)	Maximum Height (in.)	Design Pressure (psf)
1	52 $\frac{1}{4}$	100 $\frac{1}{4}$	$\pm$ 100
2	53 $\frac{1}{2}$	101 $\frac{1}{2}$	$\pm$ 100

Impact Resistance: These products satisfy the Texas Department of Insurance's criteria for protection from windborne debris in the **Inland I** and **Seaward zone**. The products may be installed at any height on the structure as long as the design pressure rating for the products is not exceeded. The products do not require an impact protective system.

Acceptance of Smaller Assemblies: Identically built assemblies with dimensions equal to or smaller than those specified in this evaluation report are acceptable within the limitations specified in this evaluation report.

INSTALLATION INSTRUCTIONS

General: The skylight assembly shall be prepared and installed in accordance with the manufacturer's recommended installation instructions and this evaluation report. Detailed installation instructions and component drawings are available from the manufacturer.

Installation:

System 1: The skylights shall be secured to minimum 2x Spruce-Pine-Fir dimension lumber. The skylight shall be secured to the roof framing with minimum ½" x 2" hex head screws. The fasteners shall be spaced approximately 3 inches from each corner and approximately 12 inches on center along the perimeter of the skylight. The fasteners shall be long enough to penetrate a minimum of 1 ½ inches into the wood framing.

System 2: The skylights shall be mounted to a wood curb. The wood curb shall be minimum 2x Spruce-Pine-Fir dimension lumber. The wood curb and the attachment of the wood curb to the roof framing shall be designed to resist the design pressures of the skylight as specified in this evaluation report. The wood curb and the attachment of the wood curb to the structure shall be designed by an engineer licensed to practice in the State of Texas.

The skylight shall be secured to the wood curb using the frame of the skylight with minimum ½" x 2" hex head screws. The fasteners shall be spaced approximately 3 inches from each corner and approximately 12 inches on center along the perimeter of the skylight. The fasteners shall be long enough to penetrate a minimum of 1 ½ inches into the wood framing.

Note: The manufacturer's installation instructions and the design drawings shall be available on the job site during installation. All fasteners shall be corrosion resistant as specified in the International Residential Code (IRC), the International Building Code (IBC), and the Texas Revisions.